

Minimum On Site Checklist (Non-Invasive) Auto Calc v2.0

Service

Maintenance

									AHRI#	
Customer:						Date:				
Address:			Technician (s)							
City		Province			Postal	Code				
*RH calculation	ns are not correc	t for DP temperatures b	elow 32F, <u>all</u> fi	elds need to	be filled in with a	ccurate m	neasurem	ents for cor	rect calculati	ions
Ref. Type Metering		Device	Three Phase Voltage Imbalance Percentage (*Max 2%)			Voltag	e: _{L1-L2}	L2-L3	L3-L1	VAC
Outdoor Unit: Model #			Compressor(s)	Amp: Heating A Cooling		Δ APP and/o	ne in range? (See n r manufacturers p e fill out <u>invasive</u> rej	ame plate Copeland roduct specs) if not pair checklist	(i) OD Fan Ar	mp: A
Serial #			* Total Amperage:		A Cooling A		Com	pressor(s) IRT	ΜΩ	۰F
Indoor Unit: Model #						Voltage	Ð: L1-L2	L2-L3	L3-L1	VAC
	Serial #					* Blower	Amperage:	А	Heater + Blower:	А
Filter & Coil Clean YES Chec		ck/Verify Air Flow	YES (i) /	Fan Spe	ed High	(i) TE	ESP "	wc Coil PE	_	RY WET
Check/Test Electric Heater, Sequencers and/or Heat Relay YES N/A Heater Size [Kilowatt] kW οκ Oil / Gas									RPM	
Fest Capacitor(s) under load YES N/A Con			ressor volts AMPS			MFD MFD MFD		Rated MFD Rated MFD Rated MFD	MFD Variat MFD Variat MFD Variat	tion (±6%)
Check and Inspect	all Electrical Wiring	g and Components	YES	Check/	Cleaned Condensa	te Drain, 1	Γrap and/o	r Pump	YES	
Thermostat Staging Differential First (HP) (1F/0.5C)			°F or	°C Se	econd (AUX) (2F/1C)	۰F	OR	°C Dela	IY (30-60min)	Min
Check/Set Balance Points YES			N/A	I	High BP °F	OR	°C I	Low BP	°F or	°C
Set/Check Defrost Termination/Time YES			N/A	Min	or	min/70°F)	Test/Fo	rced Defrost	YES	N/A
Outdoor Unit HEATING		COOLING	Indoor Unit HEATIN					DLING		
Target Evap Temp / CTOA EAT, LLT and OAT required for accurate calculations		9-19-82-15-0-0-10-10-10-10-10-10-10-10-10-10-10-10	*Target Delta T (ΔT) (input rated manufacturers heating & cooling capacity		BTU/H @ °F			RATED COOL CAPACITY BTU/H OAT *TEE	© °F T °F+3 *¹	DB & WB Required in accurate calculation
Suction Line		°F	*Entering Air Temp		DB °F			DB/W	В %	
Vapour Line		°F	*Leaving Air Temp		DB °F			DB/W		
Liquid Line		°F	Actual Temperature Split (ΔT)			0		0	·	
Discharge Line		°F			HEATING CAPACITY BTU/H	COP		SENSIBLE BTU/H	LATENT BTU/H	COOLING CAPACITY BTU/H
Outside Air	DB °F	DB °C % RH .	*Total Capac	ity		Tons	SENSIB HEAT RATIO	^{LE} Δ H	BTU/LB	Tons
	WB °F	DP °F	Total Power Ir	nput	Watts	KWh		Watts	KWh	EER
	WB 1	Di 1	Verified A	ir Flow	CFM (Nomin	CFM/Ton nal 400CFM per Ton)	Service Valves	open?	Wipe down indoor/outdoor unit?	YES
Entering Water	°F °	°F	Total Capacity Within ±10% of High/Low Range of Rated Cap			apacity?	ATED HEATING CAPAC B ATED COOLING CAPAC	TU/H	BTU/H	
Leaving Water *Always use Equipment Test mode Centre	° F	°F		NO N/A		ot system.		TU/H	BTU/H	ION
Calculations will only be performed for Indoo RH calculations are not correct for Dew Poin Calculated Target DeltaT using manufacture Target Evaporator Temperature or TET = Th	r unit A, they are only accurate when CFM i it temperatures below 32F, DP Calculations irs output ratings @ specified Outdoor Air Te ne saturation temperature the evaporator coi	nd after a minimum of 15mins of operation in each mode are werlfed. Please use provided product specs to determine are not accurate below RH of 50%, RH calculations above emperature can be used as a baselier with also theboding improvements and the used as a baselier with also theboding described in the second of the second of the second difference of the condensing temperature and the ambient,	CFM on HIGH fan speed (ductless), E DP temperature of 32F are within 1.0. manufacturers product specifications to DTD of 35°F). using a PT chart compa	ECM readout (constant CFM) or 12% Capacity calculations are wi o verify the unit is operating as the are the target saturation temperal	static pressure (constant torque) see info icor thin 5% ne manufacturer intended. ture to evaporator pressure.	is and Bold text for links	to more info	will determine capacity calcul		high efficiency units.
Recommendations:										